

DC-DC CONVERTER 24/24 V DC

24/24 V DC, 10 A

CD10.241

PSU 24V dc I/P 24V dc 10A 240W O/P

- Width 42mm
- 94,2% efficiency
- 20% power reserve
- Galvanically separated SELV/PELV output



PRODUCT DESCRIPTION

The CD10.241 is a DIN-rail mountable DC/DC converter of the DIMENSION series which provides a floating, stabilized and galvanically separated SELV/PELV output voltage.

The CD-Series is part of the DIMENSION power supply family. The most outstanding features of CD10.241 are the high efficiency, the small size and the wide operational temperature range.

The CD-Series includes all the essential basic functions. The devices have a power reserve of 20% included, which may even be used continuously at temperatures up to +45°C.

High immunity to transients and power surges as well as low electromagnetic emission and a large international approval package for a variety of applications makes this unit suitable for nearly every situation.

TECHNICAL DATA

INPUT DATA

Input voltage dc	24 V
Input voltage dc min	18 V DC
Input voltage dc max	35 V DC
Input capacitance	4300 µF
Inrush current	Typ. 6 A @ 24 V DC
Max entrance tripple	5 V pp

OUTPUT DATA

Output voltage	24 V DC
Output voltage min	24 V DC

Output voltage max	28 V DC
Output current	10 A
Power	240 W

EFFICIENCY / LIFETIME / MTBF

Efficiency	94,2 %
Life span	103000 h @ 24 V DC, 10 A, 40 °C
MTBF (IEC 61709)	731000 h @ 24 V DC, 10 A, 40 °C

DIMENSIONS

Width	42 mm
Height	124 mm
Depth	117 mm
Weight	0,5 kg

OTHER

Approvals	CE, UL
Keep time	Typ. 4 ms @ 24 V DC
IP class	IP20
Clamp type	Screw
Material protection	Aluminium
Ripple max	50 mV pp
Series	Dimension C
Power drop from +60 °C to +70 °C	6 W/°C
Temperature min without derating	-25 °C
Temperature max without derating	60 °C
Startup delay	200 ms
Type Power Supply	DC-DC

Fig. 7-1 Efficiency vs. output current at 24V output and 24Vdc input voltage, typ.

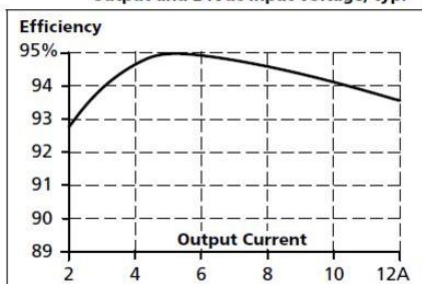
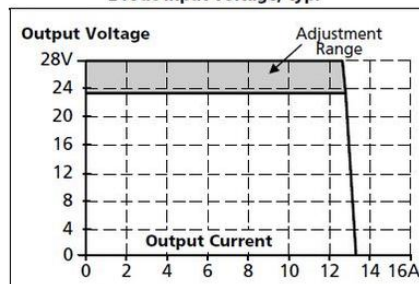


Fig. 5-1 Output voltage vs. output current at 24Vdc input voltage, typ.



Allowable Output Current at 24V

